

Product Information

G 7500

G 7500 MultiSensor Water Analysis Handheld Measuring Device



- **High-ohm BNC input for pH/Redox**
- **2nd input for conductivity or dissolved oxygen measurement**
- **Galvanic isolation of both inputs for simultaneous measurement:**
2 measurement variables can be measured simultaneously!
Unique in this price class!
- **Waterproof**
- **Data logger (access via USB mass storage device)**
- **Micro USB (mass storage device, COM port)**
- **NiMH-AAA batteries, charging via Micro USB**
- **Graphic, multilingual LCD (backlighting: white, red on alarm)**
Measurement and curve display

Features

The G 7500 is a comfortable multi-channel water analysis device for simultaneous measurement of two measurement variables and the corresponding temperature. All significant electrochemical measurements can be combined:

- pH/ Redox + conductivity/salinity
- pH/ Redox + dissolved oxygen

The backlit graphic display shows all parameters in plain text in German or English; other languages can be integrated (additional charges indicated on request). Large display or measurement diagram can also be represented.

Use of our proven standard plug connectors guarantees that you can use our standard sensors – without additional costs due to complicated technology in the sensors. The device is distinguished by its impressive performance and the affordable system price (refer also to our sets). The state-of-the-art device platform uses the standard USB cable to charge the internal batteries (interchangeable) and read the data logger without the need for additional software or adapters. The logger is read conveniently like a USB 2.0 memory stick.

Therefore, you have applications such as surface water monitoring, neutralisation processes or agricultural measurements ready to hand in a compact format.

Technical data

Input no.1

pH/ Redox

Connection : BNC, waterproof
 Measuring range : -2.00...+16.00 pH
 (± 0.25 % FS @ 25°C)
 or -1500...+1500mV Redox voltage
 (±0.25 % FS @ 25 °C)

Temperature : -10.0...150.0 °C (Pt1000)
 ±0.25 % FS connection via 4mm banana
 or O₂/LF sensor

Temperature Compensation : Manual, automatic

Input no. 2

Connection : 7-pole bayonet jack
 Temperature : -10.0...110.0 °C (NTC or Pt1000)
 Measuring range (Pt 1000)
 -10.0...+110.0 °C
 Measuring range (NTC 10k)
 -10.0...+110.0 °C
 (integrated in O₂/LF sensor)

Conductivity

Measuring range : 0 µS/cm...500 mS/cm
 (±0.5 % FS @ 25 °C)
 Salinity/PSU: 0.0...70.0 g/kg
 Cell constant 0.3...1.6000 1/cm

Temperature Compensation : Off, linear (0.300...3.000 %/K),
 NLF (according to DIN EN 27888),
 Reference temperature: 20 °C or 25 °C
 (adjustable)

Dissolved oxygen

Measuring range : Oxygen saturation: 0.0...500.0 % sat
 Oxygen concentration: 0.0...50.0 mg/l
 Oxygen partial pressure: 0...1013 mbar O₂
 (accuracy depending on sensor and
 calibration with flow > 20 cm/s, add.
 ±1.5 % FS @ 25 °C, 100 % sat, O₂)

Temperature compen. : Automatically via connected sensor
 Pressure compensation : Manual, automatic via int. sensor:
 500..1100 hPa ±4 hPa

Salinity compensation : Manual PSU 0...70 g/kg

Additional functions : Text-base user guidance (DE/EN),
 Charging via USB jack
 (3xAAA batteries integrated,
 interchangeable)

Display : LCD (180 x 128 pixel), monochromatic,
 Adjustable backlighting

Interface : USB 2.0, Micro USB jack

Calibration : pH 1...5 point calibration
 (PHL buffer, DIN buffer)
 LF cell constant
 O₂: Water-saturated air

Data logger : Yes (8 GB with FAT file system)

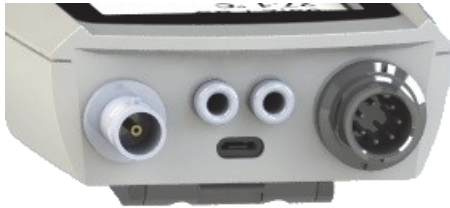
Alarm : Yes,
 Acoustic alerting (horn)
 Visual (red LCD background)

Power supply : 3x NiMh AAA (max. 750 mAh)

Current requirement : On: approx. 75 mA in operation;
 Off: approx. 0.1 mA

Product Information

Connections



Consumable parts:

WSC3 : included in set
 3 test points: ~147 µS/cm, ~1413 µS/cm, ~12,90 mS/cm
 WSC10 : optional, for additional charge
 10 test points of 0.9 µS/cm to ~192 mS/cm
 Control solution 1413 µS/cm
 Control solution 50 ms/cm

Ordering code

G7500 (device alone)

G7500 1. -

1.		
	PH/O2	Device, GE125-L02+accessories GWO 5610-L02+accessories, GKK 2021
	PH/CON	Device, GE125-L02+accessories LF425-L02+accessories, GKK 2021
	PH/CON/O2	Device, GE125-L02+accessories, LF425-L02+accessories, GWO5610-L02+accessories, GKK 2021

Accessories

O2 sensor:
GWO5610-L04 (article no. 607764)
 Oxygen sensor, cable length 4m

GWOK 02 (article no. 608012)
 Spare membrane head

KOH 100 (article no. 603356)
 Spare electrolyte 100 ml

GCAL3610 (article no. 611371)
 Calibration bottle

LF measuring cell:

LF452-L02-GE (article no. 608773)
 4-pole graphite precision measuring cell

LF400-L02-GE (article no. 602968)
 4-pole graphite economy measuring cell

GKL-100 (article no. 601396)
 Calibration solution, 100 ml 1413 µS/cm

GKL-102 (article no. 601400)
 Calibration solution, 100 ml 50 mS/cm

pH electrode:

GE117-BNC-L02 (article no. 600730)

GE125-BNC-L02 (article no. 600732)
 Waterproof pH electrode with Pt1000 to 4mm banana

PHL 4 (article no. 601369)
 250 ml ready-to-use buffer solution pH 4.01

PHL 7 (article no. 601371)
 250 ml ready-to-use buffer solution pH 7.00

PHL 10 (article no. 601373)
 250 ml ready-to-use buffer solution pH 10.01

GRL100-GE (article no. 601420)
 100 ml pepsin/HCl cleaning solution

- Additional accessories on request or in our catalogue